



DC/DC CONVERTER P15

Protection Program

PZ-04062E

Application

DC/DC converter P15 is used in arc protection system as power supply for current sensing unit SM.

The converter enables supplying of current sensing unit SM with DC supply voltage 48V, 110V or 220V (depending on type). Besides supplying the devices the converter provides galvanical insulation between auxiliary DC supply and connected devices (SM).



figure 1. DC/DC converter P15

Main features

- wide input voltage range
- overvoltage and short circuit protection
- galvanical insulation 2,5kV between input and output
- small dimensions and simple mounting on rail DIN EN 50022-35

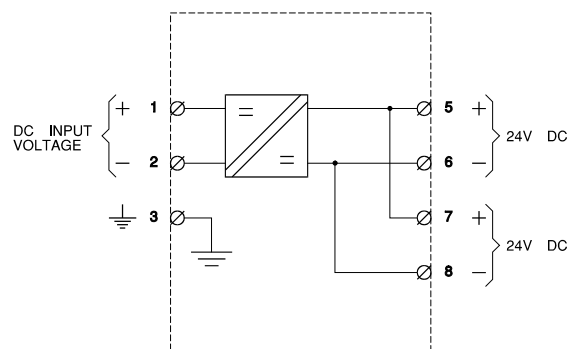


figure 2. Terminal diagram for converter P15

Functional description

The converter is connected to DC auxiliary supply voltage 48VDC, 110VDC or 220VDC according to terminal diagram on fig. 2. It generates output of 24V DC, with maximal power 15VA. The output is designed for connection current sensing unit SM.

Connected devices must be selected for 24V DC supply (SM type Z04-02-1X).

Green LED "24V" on front panel is used for local indication of availability of the converter.

Specifications

input:

voltage (type Z04-06-0x)..... 85 - 170VDC
(type Z04-06-1x)..... 160 - 320VDC
(type Z04-06-2x)..... 36 - 72VDC

inrush current..... 1,2A max

overvoltage protection

output:

voltage..... 24V DC \pm 1%

current..... 650mA max

ripple..... 0,1Vpp max

short circuit and open circuit protection

power.....15VA

general data:

temperature range.....-10°C..+55°C

insulation test voltage.....2,5kV, 50Hz, 1min

between all insulated
circuits

mechanical data:

mounting.....on rail,

DIN EN 50022-35

dimensions.....45x74x120 mm

